

CARRIER AIR CONDITIONING OVERSIGHT COST ESTIMATE								
O&M								
Input Discount Rate Here > > >	0.05	0.06	0.07					
Cost Category V V V V V V	Calendar Yr	>>>>>>	2000	2001	2002	2003	2004	2005
1. Project Mgmt LOE			\$1,950	\$750	\$775	\$800	\$825	\$850
2. EAD/ORC/USDOJ LOE			\$450	\$450	\$465	\$480	\$495	\$510
3. Regional Travel			\$1,300	\$650	\$700	\$700	\$750	\$750
4. Cost Recovery LOE			\$300	\$300	\$310	\$320	\$330	\$340
6. Regional Indirect Costs			\$5,670	\$3,150	\$3,200	\$3,200	\$3,250	\$3,250
7. EPA 5 YR Review Cost			\$5,000	\$0	\$0	\$0	\$0	\$5,938
9. Subtotals			\$14,670	\$5,300	\$5,450	\$5,500	\$5,650	\$11,638
10. Present Value (@0.05% DR)			\$14,670	\$5,048	\$4,943	\$4,751	\$4,648	\$9,119
11. Present Value (@.06% DR)			\$13,840	\$5,000	\$4,850	\$4,618	\$4,475	\$8,697
12. Present Value (@.07% DR)			\$13,710	\$4,953	\$4,760	\$4,490	\$4,310	\$8,298



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2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	TOTALS
\$875	\$900	\$925	\$950	\$975	\$1,000	\$1,025	\$1,050	\$1,075	\$2,000	\$16,725
\$525	\$540	\$555	\$570	\$585	\$600	\$615	\$630	\$645	\$660	\$8,775
\$800	\$800	\$850	\$850	\$900	\$900	\$950	\$950	\$1,000	\$1,000	\$13,850
\$350	\$360	\$370	\$380	\$390	\$400	\$410	\$420	\$430	\$440	\$5,850
\$3,300	\$3,300	\$3,350	\$3,350	\$3,400	\$3,400	\$3,450	\$3,450	\$3,500	\$3,500	\$55,720
\$0	\$0	\$0	\$0	\$7,053	\$0	\$0	\$0	\$0	\$8,377	\$26,368
\$5,850	\$5,900	\$6,050	\$6,100	\$13,303	\$6,300	\$6,450	\$6,500	\$6,650	\$15,977	\$127,288
\$4,365	\$4,193	\$4,095	\$3,932	\$7,778	\$3,683	\$3,592	\$3,447	\$3,359	\$7,685	\$89,308
\$4,124	\$3,924	\$3,796	\$3,611	\$7,008	\$3,319	\$3,205	\$3,047	\$2,941	\$6,667	\$83,122
\$3,898	\$3,674	\$3,521	\$3,318	\$6,320	\$2,993	\$2,864	\$2,697	\$2,579	\$5,791	\$78,177

A:A3: Type in the discount rate in decimal form in cell A:B3; the subtotals and present values are calculated automatically throughout the five tables. These tables can be modified to change the Discount Rate and other variables for different timeframes, such as for individual years or individual categories during a particular year.

A:A4: Cost Categories are taken from prior cost estimation attempts and represent only major categories.

A:A5: Project Mgmt LOE focuses on the work of the RPM. Travel is generally done by the RPM, but may be done by EPA SESD, and LOE associated with travel is within this category.

A:A6: Environmental Accountability Division/Office of the Regional Counsel LOE focuses on legal support through Regional attorneys and paralegals; specifically deals with the enforcement of the UAO provisions and day-to-day problems requiring an attorney's intervention either at the Regional level or at the USDOJ level. May incorporate DOJ LOE.

A:A7: Regional Travel includes all reimbursable travel expenses which may include airfare, per diem, incidental and miscellaneous travel expenses under current Federal travel regulations and under Regional travel policies. Does not include LOE expended during travel.

A:A8: Cost Recovery LOE focuses on Enforcement Project Manager LOE. EPMs currently work in the Program Services Branch of the Waste Mgmt Division. This reflects in-house expenses and does not include contract expenses.

A:A9: Indirect costs are assigned on a per hour basis. Currently that cost is \$ 63.00 per hour. This cost estimate assumes a regular increase in the indirect cost of \$ 1.00 per hour every two years. In the past the increase in indirect cost has been less regular.

A:A10: A policy 5-Year Reviews is required at the CAC Site. The first review will be completed prior to October 2000 (five years after the Preliminary Close Out Report signature).

A:A11: These subtotals are not Present Value (2000) numbers (except, of course, for year 2000); they represent total estimated annual expenditures for the year in question.

A:A12: Discount Rate is inputted by typing in the rate in decimal form in cell A:B3 above; the subtotals and other calculations are done automatically. Present Value calculations utilize the @PVAMOUNT function available in LOTUS 123.

A:B4: Calendar year is January 1st through the end of December of the same year. These are NOT Fiscal Years.

A:D5: 65 hours/year X \$30/hour = \$1,950

(SVE system closure review = 40 hours; routine O&M = 25 hours)

Note: Assume average hourly LOE cost remains constant for two years, then rises by one dollar thereafter.

A:D6: 15 hours/year X \$30/hour = \$450

Note: Assume average hourly LOE cost remains constant for two years, then rises by one dollar; two year pattern continues thereafter.

A:D7: \$ 650/trip X 1 trips/yr = \$650

Notes: Indirect hourly cost included in Category # 6.

Also, Project Mgmt LOE for travel included in Category # 1.

A:D8: 10 hours/year X \$ 30/hr = \$300

Note: Assume average hourly LOE cost remains constant for two years, then rises by one dollar thereafter.

A:D9: \$ 63/hr X 90 hours = \$5,670

Note: 90 hours = 65 + 15 + 10;

hours spent on travel are accounted for in Category # 1.

A:D10: From experience with 5 yr reviews, a typical EPA review of a PRP deliverable has costed \$5,000.

A:E5: 25 hours/yr X \$ 30/hr = \$750

A:E6: 15 hr/yr X \$ 30/hr = \$450

A:E7: \$ 650/trip X 1 trips/yr = \$650

Note: indirect hourly costs included elsewhere.

A:E8: 10 hrs/yr X 30/hr = \$300

A:E9: \$ 63/hr X 50 hrs = \$3,150

Note: 50 hrs = 25 + 15 + 10

hours spent on travel are accounted for in Category # 1.

A:F5: 25 hrs/yr X \$ 31/hr = \$775

A:F6: 15 hrs/yr X \$ 31/hr = \$465

A:F7: \$ 700/trip X 1 trips/year = \$700

Note: indirect hourly costs included elsewhere.

A:F8: 10 hours/yr X \$31/hr = \$310

A:F9: \$ 64/hr X 50 hrs = \$3,200

Note: 50 hours = 25 + 15 + 10;

hours spent on travel accounted for in Category # 1.

A:G5: 25 hrs/yr X \$ 32/hr = \$800

A:G6: 15 hrs/yr X \$ 32/hr = \$480

A:G7: \$ 700/trip X 1 trips/yr = \$700

Note: indirect hourly costs included elsewhere.

A:G8: 10 X \$ 32/hr = \$320

A:G9: \$ 64/hr X 50 hrs = \$3,200

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1.

A:H5: 25 hrs/yr X \$ 32/hr = \$825

A:H6: 15 X \$ 33/hr = \$495

A:H7: \$ 750/trip X 1 trip/year = \$750

Note: indirect hourly costs included elsewhere.

A:H8: 10 hrs/yr X \$ 33/hr = \$330

A:H9: \$ 65/hr X 50 hrs = \$3,250

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1.

A:I5: 25 hrs/yr X \$ 34/hr = \$850

A:I6: 15 hrs/yr X \$ 34/hr = \$510

A:I7: \$ 750/trip X 1 trips/year = \$750

Note: indirect hourly costs included elsewhere.

A:I8: 10 hrs/yr X \$ 34/hr = \$340

A:I9: \$ 65/hr X 50 hrs = \$3,250

Note: 50 hours = 25 + 15 + 10

hours spent on travel accounted for in Category # 1.

A:I10: Five Year Review costs are calculated based on 3.5% inflation rate/year. Start date = YR 2000.

\$25,000 x 1.035(to the fifth power)

A:J5: 25 hrs/yr X \$ 35/hr = \$875

A:J6: 15 hrs/yr X \$ 35/hr = \$525

A:J7: \$ 800/trip X 1 trip/year = \$800

Note: indirect hourly costs included elsewhere.

A:J8: 10 hrs/yr X \$ 35/hr = \$350

A:J9: \$ 66/hr X 90 hrs = \$3,300

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:K5: 25 hrs/yr X \$ 36/hr = \$900

A:K6: 15 hrs/yr X \$ 36/hr = \$540

A:K7: \$ 800/trip X 1 trip/year = \$800

Note: indirect hourly costs included elsewhere.

A:K8: 10 X \$ 36/hr = \$360

A:K9: \$ 66/hr X 50 hrs = \$3,300

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:L5: 25 hrs/yr X \$ 37/hr = \$925

A:L6: 15 hrs/yr X \$ 37/hr = \$55

A:L7: \$ 850/trip X 1 trip/year = \$850

Note: indirect hourly costs included elsewhere.

A:L8: 10 hrs/yr X \$ 37/hr = \$370

A:L9: \$ 67/hr X 50 hrs = \$3,350

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:M5: 25 hours X \$ 38/hr = \$950

A:M6: 15 hours X \$ 38/hr = \$570

A:M7: \$ 850/trip X 1 trip/year = \$850

Note: indirect hourly costs included elsewhere.

A:M8: 10 hrs/yr X \$ 38/hr = \$380

A:M9: \$ 67/hr X 50 hrs = \$3,350

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:N5: 25 hrs/yr X \$ 39/hr = \$975

A:N6: 15 hrs/yr X \$ 39/hr = \$585

A:N7: \$ 900/trip X 1 trip/year = \$900

Note: indirect hourly costs included elsewhere.

A:N8: 10 hrs/yr X \$ 39/hr = \$390

A:N9: \$ 68/hr X 50 hrs = \$3400

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:N10: Five Year Review costs are calculated based on 3.5% inflation rate/year. Start date = YR 2000.
\$25,000 x 1.035(to the tenth power)

A:O5: 25 hrs/yr X \$ 40/hr = \$1000

A:O6: 15 hrs/yr X \$ 40/hr = \$600

A:O7: \$ 900/trip X 1 trip/year = \$900

Note: indirect hourly costs included elsewhere

A:O8: 10 hrs/yr X \$ 40/hr = \$400

A:O9: \$ 68/hr X 50 hrs = \$3400

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:O10: Five Year Review costs are calculated based on 3.5% inflation rate/year. Start date = YR 2000.
\$25,000 x 1.035(to the tenth power)

A:P5: 25 hrs/yr X \$ 41/hr = \$1025

A:P6: 15 hrs/yr X \$ 41/hr = \$615

A:P7: \$ 950/trip X 1 trip/year = \$950

Note: indirect hourly costs included elsewhere

A:P8: 10 hrs/yr X \$ 41/hr = \$410

A:P9: \$ 69/hr X 50 hrs = \$3,450

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:Q5: 25 hrs/yr X \$ 42/hr = \$1050

A:Q6: 15 hrs/yr X \$ 42/hr = \$630

A:Q7: \$ 950/trip X 1 trip/year = \$950

Note: indirect hourly costs included elsewhere

A:Q8: 10 hrs/yr X \$ 42/hr = \$420

A:Q9: \$ 69/hr X 50 hrs = \$3,450

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:R5: 25 hrs/yr X \$ 43/hr = \$1075

A:R6: 15 hrs/yr X \$ 43/hr = \$8600

A:R7: \$ 1000/trip X 1 trip/year = \$1000

Note: indirect hourly costs included elsewhere

A:R8: 10 hrs/yr X \$ 43/hr = \$430

A:R9: \$ 70/hr X 50 hrs = \$3500

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:S5: 25 hrs/yr X \$ 44/hr = \$2000

A:S6: 15 hrs/yr X \$ 44/hr = \$8800

A:S7: \$ 1000/trip X 1 trips/year = \$1000

Note: indirect hourly costs included elsewhere

A:S8: 10 hrs/yr X \$ 44/hr = \$440

A:S9: \$ 70/hr X 50 hrs = \$3500

Note: 50 hrs = 25 + 15 + 10

hours spent on travel accounted for in Category # 1

A:S10: Five Year Review costs are calculated based on 3.5% inflation rate/year. Start date = YR 2000.
\$25,000 x 1.035(to the fifteenth power)

A:T10: Five Year Review costs are calculated based on 3.5% inflation rate/year. Start date = YR 2000.
 $\$25,000 \times 1.035$ (to the fifteenth power)

